

BUREAU OF ENTOMOLOGY

QUARTERLY LETTER OF INFORMATION OF THE FEDERAL HORTICULTURAL BOARD.

UNITED STATES DEPARTMENT OF AGRICULTURE.

NO. 30.

JANUARY, 1919.

NURSERY STOCK, PLANT, AND SEED QUARANTINE.

Quarantine No. 37, with regulations, promulgated on November 18, 1918, and effective on and after June 1, 1919, prohibits the importation of nursery stock and other plants and seeds from all foreign countries and localities, on account of certain injuries insects and fungous diseases, except as provided in the regulations. Under this quarantine the following plants and plant products may be imported without restriction: Fruits, vegetables, cereals, and other plant products imported for medicinal, food, or manufacturing purposes, and field, vegetable, and flower seeds. The entry of the following plants for propagation is permitted under restriction: Lily bulbs, lily of the valley, narcissus, hyacinths, tulips, and crocus; stocks, cuttings, scions, and buds of fruits; rose stocks, including manetti, multiflora, brier rose, and rosa rugosa; nuts, including palm seeds; seeds of fruit, forest, ornamental, and shade trees, seeds of deciduous and evergreen ornamental shrubs, and seeds of hardy perennial plants.

Other quarantines, both domestic and foreign, now in effect, are given on pages 9 and 10 of "Quarterly Letter of Information" No. 29. The restrictive orders, referred to on pages 10 and 11 of this letter, remain the same, except that on and after June 1, 1919, Quarantine No. 37 will supersede the order relative to nursery stock.

C. L. MARLATT, *Chairman of Board.*

NOTES ON ENTOMOLOGICAL INTERCEPTIONS.

It will be noted from this list that what appears to be an injurious weevil (*Anthonomus rectirostris*) was collected in a shipment of seeds of wild cherry (*Cerasus avium*) from France. Although no living insects were collected, fully 5 per cent of the seeds exhibited holes made by the adult. This weevil in Europe is known to feed in the pits of prunus and cerasus, and its introduction into and establishment in the United States should be prevented, if possible.

A small shipment of Brazilian cotton seed showed a light infestation of the pink bollworm (*Pectinophora gossypiella*). This material was intercepted in Washington, D. C., and the entire shipment destroyed by fire. Orchids from the Straits Settlements were found to be infested with *Lepidosaphes pallida*, a scale insect which attacks citrus and willow in Japan.

E. R. SASSNER, *Chief Inspector.*

LIST, BY COUNTRIES, OF PESTS COLLECTED AND REPORTED FROM OCTOBER 1, 1918, TO DECEMBER 31, 1918, INCLUSIVE.

[The number in parenthesis following name of host indicates the number of times reported, if collected more than once.]

| Country of origin and name of pest. | Host. |
|-------------------------------------|-----------------------|
| AFRICA. | |
| Insects: | |
| Bruchus sp. (weevil)..... | Albizzia welwitschii. |
| Laemophloeus sp. (Cucujidae)..... | Albizzia angolensis. |
| AZORES. | |
| Insect: | |
| Myzus sp. (Aphididae)..... | Persia azorica. |

List, by countries, of pests collected and reported from October 1, 1918, to December 31, 1918, inclusive—Continued.

| Country of origin and name of pest. | Host. |
|--|---|
| BOLIVIA. | |
| Insect: <i>Wasmannia auropunctata</i> (ant)..... | Oxalis tuberosum. |
| BRAZIL. | |
| Insects: | |
| <i>Aphis</i> sp. (Aphididae)..... | Mango. |
| <i>Dialeurodes</i> sp. (white fly)..... | Jaboticabeira cranca. |
| <i>Diaspis boisduvalii</i> (scale insect)..... | Euterpe oleracea. |
| <i>Pectinophora gossypiella</i> (pink bollworm)..... | Cotton (seed). |
| Disease: | |
| <i>Aspergillus ochraceus</i> | Andiroba. |
| CANADA. | |
| Disease: | |
| <i>Coniothyrium fuckelii</i> | Ribes. |
| CHINA. | |
| Insects: | |
| <i>Bruchus</i> sp. (weevil)..... | Bean (seed). |
| Do..... | Vigna (seed). |
| <i>Lasioderma serricorne</i> (cigarette beetle)..... | Bean. |
| Diseases: | |
| <i>Alternaria</i> sp. | Citrus (seed). |
| <i>Cystosporina</i> sp. | Litchi sp. (budsticks). |
| <i>Cladosporium</i> sp. | Citrus (seed). |
| <i>Rhabdospora diospyri</i> | <i>Diospyros</i> sp. (dead branches). |
| <i>Sphaeronema</i> sp. | <i>Ficus retusa</i> . |
| <i>Sphaeropsis</i> sp. | Litchi sp. (budsticks). |
| <i>Trichothecium roseum</i> | Citrus (seed). |
| COSTA RICA. | |
| Insect: | |
| <i>Calandra oryza</i> (rice weevil)..... | Mango. |
| ECUADOR. | |
| Insects: | |
| <i>Anisolabis annuleipes</i> (earwig)..... | Potatoes (tubers). |
| <i>Anthomyiid</i> (larya)..... | Do. |
| <i>Aspidiotus lataniae</i> (scale insect)..... | Avocado (budwood). |
| <i>Aulacaspis</i> sp. (scale insect)..... | Do. |
| <i>Cathartus advena</i> (foreign grain beetle)..... | Beans. |
| <i>Monomorium destructor</i> (ant)..... | Corn, Oxalis (tubers). |
| <i>Muscina stabulans</i> (Muscidae)..... | Potatoes (tubers). |
| <i>Philonthus discooides</i> (Staphylinidae)..... | Carica (decayed wood). |
| <i>Tetramorium guineense</i> (ant)..... | Cactus, Carica (wood). |
| Diseases: | |
| <i>Aspergillus niger</i> | Oxalis sp. ("Ocha"). |
| Do..... | Oxalis sp. |
| Do..... | Oxalis (tubers). |
| Do..... | Oxalis tuberosa. |
| <i>Aspergillus ochraceus</i> | Oxalis sp., Oxalis tuberosa. |
| "Black heart"..... | Solanum tuberosum (yellow potato tubers). |
| <i>Colletotrichum gloeosporioides</i> | <i>Cerbera thevetia</i> . |
| <i>Fusarium</i> sp..... | <i>Tropaeolum</i> (?). |
| <i>Oidium lactis</i> | Oxalis (tubers). |
| <i>Puccinia</i> sp. (<i>Telia</i> and <i>Aecia</i>)..... | <i>Lilium</i> sp. |
| <i>Ramularia</i> sp..... | Solanum tuberosum ("Blanca") (tubers). |
| <i>Rhizoctonia</i> | Solanum tuberosum (yellow potato tubers). |
| <i>Rhizopus nigricans</i> | Oxalis (tubers). |
| <i>Spongospora subterranea</i> | Solanum tuberosum (brown variety). |
| <i>Sporotrichum roseum</i> | Oxalis tube rosa. |
| ENGLAND. | |
| Insect: | |
| <i>Emphytus cinctus</i> (sawfly)..... | Manetti rose stock. |
| Disease: | |
| <i>Bacterium tumefaciens</i> (crown gall)..... | Rose stocks. |

List, by countries, of pests collected and reported from October 1, 1918, to December 31, 1918, inclusive—Continued.

| Country of origin and name of pest. | Host. |
|--|--|
| FRANCE. | |
| Insects: | |
| <i>Anthonomus rectirostris</i> (Curculionidae)..... | <i>Cerasus avium</i> (wild cherry seed). |
| <i>Cathartus advena</i> (foreign grain beetle)..... | <i>Hyacinths</i> (white). |
| <i>Homolota</i> (<i>Atheta</i>) sp. (Staphylinidae)..... | <i>Do.</i> |
| <i>Lasioderma serricorne</i> (cigarette beetle) (adult and larva)..... | <i>Cerasus avium</i> (wild cherry seed). |
| <i>Psyche villosella</i> (Psychidea)..... | <i>Clematis</i> sp. |
| <i>Typhoea fumata</i> (Mycetophagidae)..... | <i>Hyacinths</i> (white). |
| Disease: | |
| <i>Mucor globosus</i> | <i>Paeonia</i> sp. (roots). |
| HAITI. | |
| Disease: | |
| <i>Fusicoccum</i> sp..... | <i>Cissus</i> sp. |
| INDIA. | |
| Insects: | |
| <i>Calandra oryza</i> (rice weevil)..... | <i>Poppy.</i> |
| <i>Curculionid</i> | <i>Millettia piscidia.</i> |
| <i>Rhizopertha dominica</i> (lesser grain borer)..... | <i>Poppy.</i> |
| <i>Tribolium confusum</i> (confused flour beetle)..... | <i>Do.</i> |
| Diseases: | |
| <i>Dendrodochium affine</i> | <i>Bassia latifolia.</i> |
| <i>Lasiodiplodia theobromae</i> | <i>Do.</i> |
| IRELAND. | |
| Disease: | |
| <i>Bacterium tumefaciens</i> | <i>Manetti stocks</i> (6). |
| JAPAN. | |
| Insect: | |
| <i>Apion griseo-pubescent</i> (Curculionidae)..... | <i>Deutzia glabrata.</i> |
| Disease: | |
| <i>Oedemium atrum</i> | <i>Quercus</i> sp. |
| MEXICO. | |
| Insect: | |
| <i>Pheidole</i> sp. (ant)..... | <i>Avocado.</i> |
| Disease: | |
| <i>Aspergillus ochraceus</i> | <i>Annona diversifolia.</i> |
| PHILIPPINE ISLANDS. | |
| Insects: | |
| <i>Alphitobius piceus</i> (Tenebrionidae)..... | <i>Ficus</i> sp. |
| <i>Cathartus advena</i> (foreign grain beetle)..... | <i>Cranaia</i> sp. |
| Disease: | |
| <i>Gloeosporium</i> sp..... | <i>Heterospathe elata.</i> |
| SAMOAN ISLANDS. | |
| Insect: | |
| <i>Pseudococcus</i> sp. (mealy bug) | <i>Coconut palm.</i> |
| SCOTLAND. | |
| Insect: | |
| <i>Emphytus cinctus</i> (sawfly)..... | <i>Manetti rose stocks.</i> |
| STRAITS SETTLEMENTS. | |
| Insect: | |
| <i>Lepidosaphes pallida</i> (scale insect)..... | <i>Orchids.</i> |
| TRINIDAD. | |
| Diseases: | |
| <i>Lasiodiplodia tubericola</i> | <i>Colocasia edulis</i> (dasheen-Chinese). |
| <i>Sclerotium rolfsii</i> | <i>Colocasia esculenta</i> (dasheen). |
| VENEZUELA. | |
| Insect: | |
| <i>Lasioderma serricorne</i> (cigarette beetle)..... | Botanical specimens. |

LIST, BY STATES, OF PESTS COLLECTED AND REPORTED FROM OCTOBER 1, 1918, TO DECEMBER 31, 1918, INCLUSIVE.

[The number in parentheses following name of country indicates the number of times reported, if collected more than once.]

| State in which collected and name of pest. | Host. | Country of origin. | Collector. |
|--|-----------------------------------|--------------------------|-----------------------------|
| CALIFORNIA. | | | |
| Insects: | | | |
| Lepidosaphes pallida (scale insect). | Orchids..... | Straits Settlements..... | S. & A. Chatterly. |
| Pseudococcus sp. (mealy bug). | Coconut palms..... | Samoa Islands..... | G. R. Wilson, Geo. Compere. |
| CONNECTICUT. | | | |
| Insect: | | | |
| Emphytus cinctus (sawfly). | Manetti rose stock..... | England..... | M. P. Zappe. |
| DISTRICT OF COLUMBIA. | | | |
| Insects: | | | |
| Alphitobius piceus (Tenebrionidae). | Ficus sp..... | Philippine Islands..... | H. L. Sanford. |
| Anisolabis annuleipes (cosmopolitan earwig). | Potatoes (tubers)..... | Ecuador..... | Do. |
| Anthomyiid (larva). | do..... | do..... | N. Perrine. |
| Anthonomus rectirostris (Curculionidae). | Cerasus avium (wild cherry seed). | France..... | E. R. Sasscer. |
| Aphis sp. (Aphididae). | Mango..... | Brazil..... | H. L. Sanford. |
| Apion griseo-pubesces (Curculionidae) | Deutzia glabrata..... | Japan..... | N. Perrine. |
| Aspidiotus lataniae (scale insect). | Avocado (budwood)..... | Ecuador..... | H. L. Sanford. |
| Aulacaspis sp. (scale insect). | do..... | do..... | Do. |
| Bruchus sp. (weevil). | Albizzia welwitschii..... | Africa..... | E. R. Sasscer. |
| Do. | Bean (seed)..... | China..... | Do. |
| Do. | Vigna (seed)..... | do..... | Do. |
| Calandra oryza (rice weevil). | Mango..... | Costa Rico..... | Do. |
| Do. | Poppy..... | India..... | N. Perrine. |
| Cathartus advena (foreign grain beetle). | Beans..... | Ecuador..... | Do. |
| Do. | Crania sp..... | Philippine Islands..... | H. L. Sanford. |
| Do. | Hyacinths (white)..... | France..... | N. Perrine. |
| Curculionid. | Milletia pescidia..... | India..... | H. L. Sanford. |
| Dialeurodes sp. (white fly). | Jaboticabeira cranca..... | Brazil..... | E. R. Sasscer. |
| Diaspis boisduvalii (scale insect). | Euterpe oleracea..... | do..... | H. L. Sanford. |
| Homolota (Atheta) sp. | Hyacinths (white)..... | France..... | N. Perrine. |
| Laemophloeus sp. (Cucujidae). | Albizzia angolensis..... | Africa..... | E. R. Sasscer. |
| Lasioderma serricorne (cigarette beetle) | Bean..... | China..... | Do. |
| Do. | Botanical specimens..... | Venezuela..... | H. L. Sanford. |
| Do. | Cerasus avium (wild cherry seed). | France..... | E. R. Sasscer. |
| Monomorium destructor (ant). | Corn..... | Ecuador..... | H. L. Sanford. |
| Do. | Oxalis (tubers)..... | do..... | Do. |
| Muscina stabulans (Muscidae). | Potatoes..... | do..... | N. Perrine. |
| Myzus sp. (Aphididae). | Persia azorica..... | Azores..... | H. L. Sanford. |
| Pectinophora gossypiella (pink boll-worm). | Cotton seed..... | Brazil..... | Do. |
| Pheidole sp. (ant). | Avocado..... | Mexico..... | C. A. Weigel. |
| Philonthus discoideus (Staphylinidae). | Carica (decayed wood)..... | Ecuador..... | H. L. Sanford. |
| Rhizopertha dominica (lesser grain borer). | Poppy..... | India..... | N. Perrine. |
| Tetramorium guineense (ant). | Cactus sp..... | Ecuador..... | Do. |
| Do. | Carica (wood)..... | do..... | H. L. Sanford. |
| Tribolium confusum (confused flour beetle). | Poppy..... | India..... | N. Perrine. |
| Typhoea fumata (Mycetophagidae). | Hyacinths (white)..... | France..... | Do. |
| Wasemannia auropunctata (ant). | Oxalis tuberosum..... | Bolivia..... | H. L. Sanford. |
| Diseases: | | | |
| Alternaria sp. | Citrus (seed)..... | China..... | C. H. Kauffman. |
| Aspergillus niger. | Oxalis (tubers)..... | Ecuador..... | C. C. Thomas. |
| Do. | Oxalis sp. (Ocha)..... | do..... | J. T. Rogers. |
| Do. | Oxalis sp. | do..... | C. C. Thomas. |
| Do. | Oxalis tuberosa..... | do..... | Do. |
| Aspergillus ochraceus. | Andiroba..... | Brazil..... | C. H. Kauffman. |
| Do. | Annona diversifolia..... | Mexico..... | J. T. Rogers. |
| Do. | Oxalis sp. | Ecuador..... | C. C. Thomas. |
| Do. | Oxalis tuberosa..... | do..... | Do. |

List, by States, of pests collected and reported from October 1, 1918, to December 31, 1918, inclusive—Continued.

| State in which collected and name of pest. | Host. | Country of origin. | Collector. |
|--|---|-------------------------|-----------------|
| DISTRICT OF COLUMBIA—continued. | | | |
| Diseases—Continued. | | | |
| "Black heart"..... | Solanum tuberosum (yellow potato tubers). | Ecuador..... | J. T. Rogers. |
| Cladosporium sp..... | Citrus (seed)..... | China..... | C. H. Kauffman. |
| Colletotrichum gloeosporioides..... | Cerbera thevetia..... | Ecuador..... | Do. |
| Coniothyrium fuckelii..... | Ribes..... | Canada..... | Do. |
| Cytosporina sp..... | Litchi sp. (budsticks)..... | China..... | Do. |
| Dendrodochium affine..... | Bassia latifolia..... | India..... | J. T. Rogers. |
| Fusarium sp..... | Tropaeolum (?)..... | Ecuador..... | Do. |
| Fusicoccum sp..... | Cissus sp..... | Haiti..... | C. H. Kauffman. |
| Gloeosporium sp..... | Heterospatha elata (seeds)..... | Philippine Islands..... | J. T. Rogers. |
| Lasiodiplodia theobromae..... | Bassia latifolia..... | India..... | Do. |
| Lasiodiplodia tubericola..... | Colocasia edulis..... | Trinidad..... | C. H. Kauffman. |
| Mucor globosus..... | Paeonia sp. (roots)..... | France..... | Do. |
| Oidium lactis..... | Oxalis (tubers)..... | Ecuador..... | C. C. Thomas. |
| Oedemium atrum..... | Quercus sp..... | Japan..... | C. H. Kauffman. |
| Puccinia sp. (Telia and Aecia)..... | Lilium sp..... | Ecuador..... | Do. |
| Ramularia sp..... | Solanum tuberosum (tubers)..... | do..... | J. T. Rogers. |
| Rhabdospora diospyri..... | Diospyros sp. (dead branches)..... | China..... | C. H. Kauffman. |
| Rhizoctonia..... | Solanum tuberosum (yellow potato tubers)..... | Ecuador..... | J. T. Rogers. |
| Rhizopus nigricans..... | Oxalis..... | do..... | C. C. Thomas. |
| Sclerotium rolfsii..... | Colocasia esculenta..... | Trinidad..... | C. H. Kauffman. |
| Sphaeronema sp..... | Ficus retusa..... | China..... | J. T. Rogers. |
| Sphaeropsis sp..... | Litchi sp. (budsticks)..... | do..... | C. H. Kauffman. |
| Spongospora subterranea..... | Solanum tuberosum (brown variety)..... | Ecuador..... | J. T. Rogers. |
| Sporotrichum roseum..... | Oxalis tuberosa..... | do..... | C. C. Thomas. |
| Tricothecium roseum..... | Citrus (seed)..... | China..... | C. H. Kauffman. |
| MASSACHUSETTS. | | | |
| Insect: | | | |
| Emphytus cinctus (sawfly)..... | Manetti rose stocks..... | Scotland..... | R. H. Allen. |
| PENNSYLVANIA. | | | |
| Insect: | | | |
| Psyche villosella (Psychidae)..... | Clematis sp..... | France..... | F. M. Trimble. |
| Diseases: | | | |
| Bacterium tumefaciens (crown gall)..... | Manetti stocks..... | Ireland (6)..... | Do. |
| Do..... | Rose stocks..... | England..... | Do. |